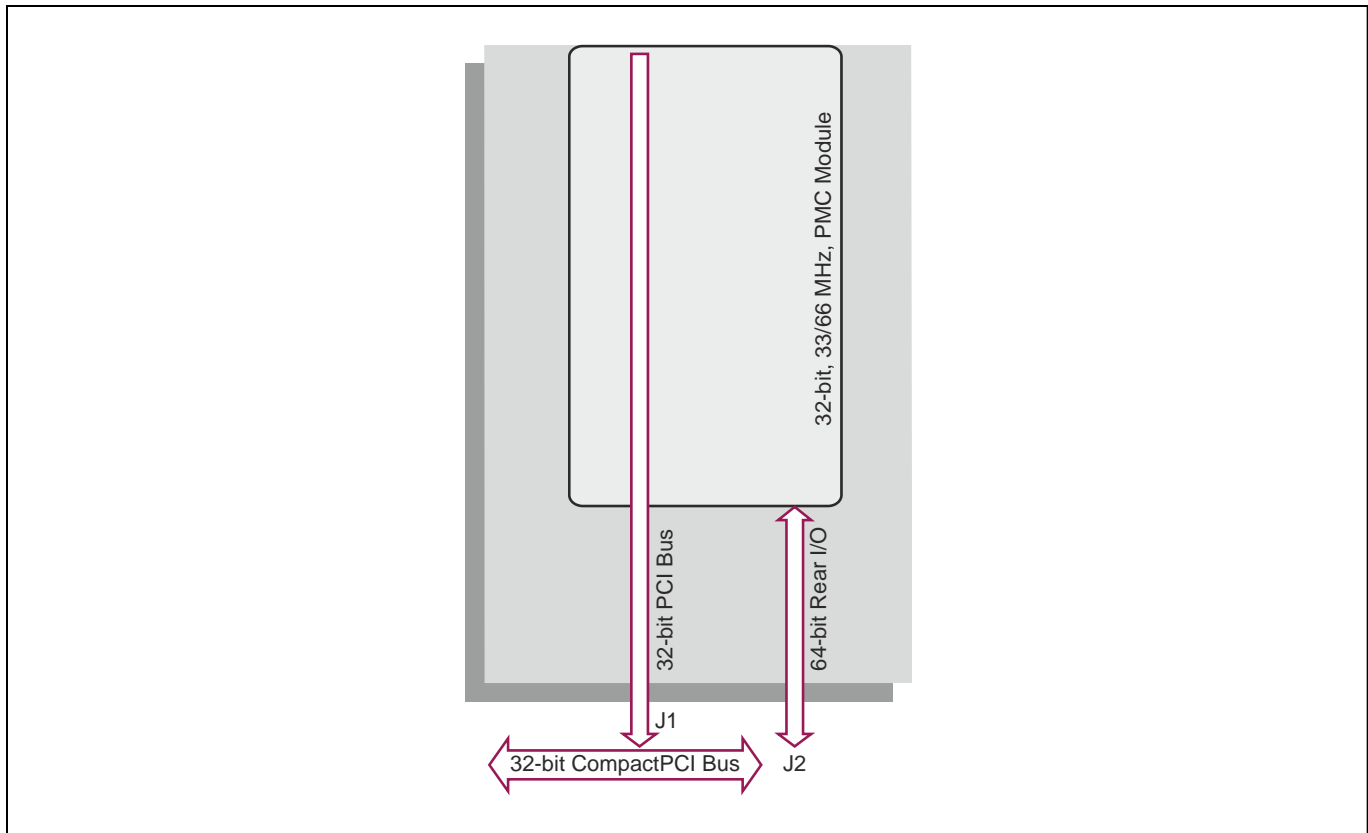


## 3U CompactPCI® PMC Carrier Board, Rugged Conduction-Cooled

### Key Features

The TP CR1/PMC-RC is a rugged conduction-cooled 3U CompactPCI® bridgeless carrier board that provides a site for a single PMC module.

- Occupies one slot
- Extended temperature and air-cooled versions also available



## Rugged PMC Carrier

- conduction-cooled to ANSI/VITA 30.1-2002
- conformally coated
- for non-rugged air-cooled versions - see separate datasheet:
  - rear plug compatible
  - non-rugged: TP CR1/PMC

## 3U CompactPCI PMC Carrier

- 3U CompactPCI® PMC Carrier supports:
  - one single size 32-bit, 33/66 MHz PMC module
  - operation with 32-bit 33/66 MHz backplanes

## PMC Interface

- PMC site supports:
  - 32-bit, 33/66 MHz PCI bus
  - 5 Volt or 3.3 Volt signaling
  - 64 rear I/O signals via J2
  - conforms to PICMG 2.3 R1.0 pinouts
- complies with CMC (Common Mezzanine Card) standard IEEE 1386-2001 and PMC (PCI Mezzanine Card) standard IEEE 1386.1-2001
- I/O can be accessed via J2

## CompactPCI Bus Interface

- pinout conforms to PICMG 2.0 R3.0:
  - 32-bit, 33MHz and 66 MHz PCI bus
  - supports 3.3V and 5V signaling
- passive CompactPCI interface:
  - no CompactPCI bridge

## Electrical Specification

- CompactPCI V(I/O) power rail used for PMC V(I/O):
  - typical current <10mA
- +12V@0.0A; -12V@0.0A
- all power supply rails available to PMC site:
  - overall power consumption is PMC dependent

## Safety

- PCB (PWB) manufactured with flammability rating of UL 94V-0

## Environmental Specification

- operating temperature (at card edge):
  - VITA 47 Class CC4, -40°C to +85°C
  - conduction-cooled
- non-operating temperature:
  - VITA 47 Class C4, -55°C to +105°C
- operating altitude:
  - -1,000 to 50,000 feet (-305 to 15,240 meters)
- 5% to 95% Relative Humidity, non condensing

## Mechanical Specification

- 3U form-factor:
- 3.9-inches x 6.3-inches (100mm x 160mm)
- single slot
- connectors: IEC-1076-4-101 for J1-J2
- operating mechanical:
  - shock - VITA 47 Class OS2, 40g
  - random vibration - VITA 47 Class V3, 0.1g<sup>2</sup>/Hz



**Parhelia B.V.**  
[www.parheliabv.com](http://www.parheliabv.com)  
☎ +31(0)10 741 00 28